**Index of Claims** 



Application/Control No.

09/136,244

Examiner

Ella Colbert

Applicant(s)/Patent under Reexamination

BEIZER ET AL.

Art Unit

3693

| <b>√</b>   | Rejected |
|------------|----------|
| <b> </b> _ | Allowed  |

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

**Appeal** Α 0 Objected

| Cla      | aim              | Date   |                |               |                |  |  |   |  |                 |  |  |
|----------|------------------|--|----------------|---------------|----------------|--|--|---|--|-----------------|--|--|
|          |                  | K.   | Т              | Г             |                | Г  | T  | T   | Π  | Γ.              |  |  |
| _        | Original         | 72683  | 1              |               | 1              | 1  |  |   | 1  |                 |  |  |
| Final    | <u>;</u>         | 0,   |                | İ             |                | 1  | 1  | 1   | 1  |                 |  |  |
| ΙŒ       | Έ                | 12   |                |               | 1              | 1  | 1  | İ   | 1  | 1               |  |  |
| l        | ~                | D6   | ļ              | 1             |                | 1  | 1  | 1   |  | l               |  |  |
|          | 1                | 17   | 1.             |               | 1              | T  | 1  | T   | $^{-}$   | $\vdash$        |  |  |
|          | -                | V  | ᡟ              | +-            | ╁              | $\vdash$   | +  | ╁   | +  | -               |  |  |
|          | 2<br>3<br>4<br>5 | ۲,   | ╀─             | ╁             | ⊬              | ╀  | ₩  | ╂   | ╁  | <b>├</b>        |  |  |
|          | 3                | V  | 4_             | 1             | ↓_             | ↓_   | <del> </del>                                     | ↓_  | ↓  | <u> </u>        |  |  |
|          | 4                | 1/   | ┸              | <u> </u>      | <u></u>        |  | L  |   |  |                 |  |  |
| 1        | 5                | V  |                | 1             |                |  | 1  | 1   | -  |                 |  |  |
|          | 6                | V  |                | ĪΤ            | П              |  |  | 1   | 1 -  | 1               |  |  |
|          | 7                | V  | 1              | 1-            | T              | <del>                                     </del> | t  | 1   | 1  | $\vdash$        |  |  |
| $\vdash$ | 8                | V  | ┿              | +             | ╁╌             | ╁  | ╁  | +   | ╁  | <del> </del>    |  |  |
|          | 0                | <del>,                                    </del> | <u> </u>       | +             | -              | ╄  | ╀  | -   | <u> </u>   | ļ               |  |  |
|          | 9                | V,   | <u>Ł</u> _     | ــــــ        | _              |  | _  |   | <u> </u>   | <u> </u>        |  |  |
|          | 10<br>11         | V  | <u> </u>       | L             |                | ł  |  |   | 1.   | İ               |  |  |
|          | 11               | V  | Ţ              |               |                |  |  |   |  |                 |  |  |
|          | 12               | 1  | Ī              | T             | 1              | Т  | $\vdash$   | T   | t  | T               |  |  |
|          | 12               | 1  | ⇈              | $\vdash$      | ╁              | ┼  | ╁  | $\vdash$  | <del>                                     </del> | ⊢               |  |  |
|          | 12<br>13<br>14   | Į <b>V</b>                                       | ⊢              | $\vdash$      | $\vdash$       | ₩  | ⊢  | 1   | ⊢  | ├-              |  |  |
|          | 100              | K,   | 1              | _             | $\vdash$       | <u> </u>   | <b>L</b>   | 1_  | _  | <u> </u>        |  |  |
|          | 15               | V  | <u>_</u>       | L             | L              | L  | L  | $\perp$   | L  | L               |  |  |
|          | 15<br>16         | V  | 1              |               | Γ              | Γ  |  |   |  | Π               |  |  |
|          | 17               | 1/   | T              | T-            | Г              | T  |  | 1   | Т  |                 |  |  |
|          | 19               | اح.  | 1              | $\vdash$      | <del>  -</del> | $\vdash$   | $\vdash$   | $\vdash$  | $\vdash$   | $\vdash$        |  |  |
|          | 18<br>19         | ۳,   | Ͱ              | -             | ├              | ┢  | -  | ₩   | ₩  | ⊢               |  |  |
|          | 19               | V  | _              | -             | <u> </u>       | <u> </u>   | <u> </u>   | ↓   | _  | <u> </u>        |  |  |
|          | 20               | 0  | _              |               |                | <u> </u>   |  | 1   |  | <u> </u>        |  |  |
|          | 21<br>22         | V  | i              | ]             |                |  |  | 1   |  |                 |  |  |
|          | 22               | 1/   |                | <b>†</b>      |                | T  | T  | 1   | $\vdash$   |                 |  |  |
|          | 23               | 1  | <del>/</del> - | ${\dagger}$   | ┢              | $\vdash$   | ┢  | ┰   | <del>                                     </del> | -               |  |  |
|          | 23               | <u> </u>   | <del> </del>   | ┢             | ├              |  | ├-   | ┢   | ⊢  | _               |  |  |
| _        | 24               | W  | <u> </u>       | _             | <u> </u>       | <u> </u>   | ╙  | <u> </u>  | ╙  | Ш               |  |  |
|          | 25               | ĽZ.  |                |               | ļ.             |  |  | <u>.                                    </u>  | 11   |                 |  |  |
|          | 26<br>27         | V  |                |               |                |  | ΙΤ   | I   | l  |                 |  |  |
|          | 27               | 17   |                | $\overline{}$ |                |  |  |   |  | T-              |  |  |
|          | 28<br>29         | . /  | -              | _             | $\vdash$       |  | <del>                                     </del> | $\vdash$  | t  |                 |  |  |
| -        | 20               | V,   | ⊢              | ⊢             |                |  | ╁  | ├   | <del>                                     </del> | _               |  |  |
|          | 29               | V,   |                | <b>↓</b>      | _              |  | _  | _   | <u> </u>   |                 |  |  |
|          | 30               | V  |                |               | $oxed{oxed}$   | $oxed{oxed}$                                     | L  | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ | ot   | L               |  |  |
|          | 31               | i/   | L              | L             | l              |  |  |   | _  |                 |  |  |
|          | 32               | 17   |                |               |                |  |  |   |  |                 |  |  |
|          | 33               | .7   | M              | _             | $\vdash$       | <u> </u>   | $\vdash$   | Ι-  |  | Н               |  |  |
|          | 34               | 4  | ┢              | -             | $\vdash$       | ├─   | -  | $\vdash$  | <del>                                     </del> | $\vdash$        |  |  |
|          | 34               | V,   | <u> </u>       |               | <u> </u>       | <del> </del>                                     | -  | -   | $\vdash$   | Щ               |  |  |
|          | 35               | V.   | <u> </u>       | L_            | <u> </u>       | <u> </u>   | ╙  | ļ   | <u> </u>   | Ш               |  |  |
|          | 36               | ı/   | L              |               | L              | L  | L  | L   | L  |                 |  |  |
|          | 37<br>38         | -  |                |               |                |  |  |   |  |                 |  |  |
|          | 38               |  |                | Г             |                | 1  |  | Г   | Г  | Н               |  |  |
|          | 39               | $\vdash$   | -              | Ι-            | $\vdash$       | $\vdash$   | -  | $\vdash$  | _  | $\vdash$        |  |  |
|          | 40               | $\vdash$   | $\vdash$       | $\vdash$      | -              | ├  | ├-   | <del> </del>  | <b>-</b>   | $\vdash \vdash$ |  |  |
|          | 40               | <u> </u>   |                | <u> </u>      | <u> </u>       | <u> </u>   |  | <u> </u>  | <u> </u>   | Ш               |  |  |
|          | 41               |  |                |               |                |  | L  |   |  |                 |  |  |
|          | 42               |  |                |               |                |  |  |   |  |                 |  |  |
|          | 43               |  |                |               |                |  |  | <u> </u>  |  | П               |  |  |
|          | 44               | Н  |                |               | <del></del>    | $\vdash$   | <u> </u>   | $\vdash$  |  | Н               |  |  |
| -        |                  | -  |                | ⊢             | <u> </u>       | <u> </u>   | $\vdash$   | -   | H  | Н               |  |  |
|          | 45               | Щ  |                | Ш             | _              | <u> </u>   |  | Ь.  | Щ  | $\Box$          |  |  |
|          | 46               |  |                |               |                |  | L  |   |  |                 |  |  |
|          | 47               |  |                |               |                |  |  |   |  |                 |  |  |
|          | 48               |  |                |               |                |  |  | Г   | П  |                 |  |  |
|          | 49               | Н  | _              | Н             | -              | $\vdash$   |  |   | Н  | $\dashv$        |  |  |
|          | 50               | -  | _              |               | -              | $\vdash$   | _  | $\vdash$  |  | $\dashv$        |  |  |
| - 1      | วบ เ             |  |                |               |                | 1 1  |  |   |  |                 |  |  |

| Cla     | im          | П              |          |     |   | Dat | е |   |    |    | 1   | Cla   | im       |        |        | -         | -      | Date   | <del>-</del> |               |          |           |
|---------|-------------|----------------|----------|-----|---|-----|---|---|----|----|-----|-------|----------|--------|--------|-----------|--------|--------|--------------|---------------|----------|-----------|
| 1 11 12 |             | 72628          |          |     |   |     |   |   |    |    |     | Final | Original |        |        |           |        |        |              |               |          |           |
|         | 1           | 1              | t        |     | Π | 1   |   |   |    | Т  | 1   |       | 51       | П      |        |           | Г      |        |              |               | $\vdash$ |           |
|         | 2           | V              | $\Gamma$ | 1 - |   | Г   |   | T |    |    | 1   |       | 51<br>52 |        |        |           |        |        |              | -             |          |           |
| П       | 3           | V              |          | П   | Π |     |   |   |    |    |     |       | 53       |        |        |           |        |        |              |               |          |           |
|         | 4           | V.             |          | T   | Π | Τ   | Π |   |    | Г  | 1   |       | 54       | П      |        |           |        |        | $\vdash$     |               | -        |           |
| ╗       | 5           | V              |          |     |   |     |   |   | Г  |    | 1   |       | 55<br>56 | П      |        |           |        |        |              |               |          |           |
| $\neg$  | 6           | V              |          | Г   |   |     |   |   |    |    | 1   |       | 56       | П      |        |           | Г      | Г      |              |               |          |           |
|         | 7           | V              |          | T   | П | Ī   | İ |   |    |    | 1   |       | 57       | П      | -      |           |        | Т      |              |               |          |           |
| T       | 8           | V              |          |     |   |     |   |   | T  |    | 1   |       | 58       |        |        |           |        |        |              |               |          |           |
|         | 7<br>8<br>9 | V              | ļ —      |     |   |     |   |   |    |    | 1   |       | 58<br>59 | П      |        |           |        |        |              | _             |          |           |
| Ì       | 10          | V,             | <b>-</b> |     | Τ |     |   | Ī |    | 1  | 1   |       | 60       |        |        |           |        |        |              | $\overline{}$ |          |           |
|         | 11          | V,             | П        |     |   |     |   |   |    |    | 1   |       | 61       |        |        |           |        |        |              |               |          |           |
| Ī       | 12          | V,             | Ţ        |     |   | П   | Г |   |    | Π  | 1.  |       | 62       |        |        |           |        |        |              |               |          |           |
| T       | 13          | V              |          | Г   |   |     | İ |   | İΤ | П  | 1   |       | 63       |        |        |           |        |        |              |               |          |           |
|         | 14          |                | Г        | Π   | Г | Г   |   |   | İ  |    | 1 i |       | 64       |        |        |           |        | Г      |              |               |          |           |
| T       | 15          | Z              |          |     | Г | Π   | Г |   |    |    | i i |       | 65       |        |        |           |        |        |              |               |          |           |
| Ī       | 16          | V              |          |     |   |     |   | П | Г  |    | 1   |       | 66       |        |        |           |        |        |              |               |          | $\Box$    |
|         | 17          | V              |          |     | Г |     |   | Π | П  |    | 1 1 |       | 67       |        |        |           |        |        |              |               |          |           |
| ٦       | 18          | V              |          |     | Г | Г   |   |   |    |    | 1   |       | 68       |        |        |           |        |        |              |               |          |           |
| ╗       | 19          | V              |          |     | Г |     |   | Г |    | Г  | 1   |       | 69       |        |        |           |        |        |              |               |          |           |
| ٦       | 20          | 0              |          |     |   |     |   |   |    |    | 1   |       | 69<br>70 |        |        | _         |        |        |              |               |          |           |
|         | 21          | V              |          |     | Г |     |   |   |    |    | 1   |       | 71       |        |        |           |        |        |              |               |          |           |
| T       | 22          | 1/             | ,        |     |   |     |   |   | Г  |    | 1 1 |       | 72       | T      |        |           |        |        |              | -             | $\neg$   |           |
|         | 23          | V              |          | Π   |   |     | Г |   |    |    | 1   |       | 73       | $\neg$ | $\neg$ |           |        |        |              |               |          |           |
|         | 24          | 1              |          | İ   |   |     | Τ |   |    |    | 1   |       | 74       | П      | コ      |           |        |        |              |               |          |           |
| ヿ       | 25          | $\overline{Z}$ |          |     |   |     | П |   |    |    | 1 1 |       | 75       |        |        |           |        |        |              |               |          |           |
| ヿ       | 26          | V              |          | Г   |   |     | Τ |   | T  | T- | 1   |       | 76       | T      | $\neg$ |           |        | _      |              |               | $\neg$   |           |
| 1       | 27          | ī/             |          | Г   |   |     |   |   |    |    | 1 1 |       | 77       | ヿ      |        |           |        |        |              |               |          | $\neg$    |
| 1       | 28          | 1/             |          |     |   |     |   |   |    |    | 1   |       | 78       |        |        |           |        |        |              |               |          |           |
| T       | 29          | 1              |          |     |   |     |   |   |    |    | 1 1 |       | 79       |        |        |           |        |        |              |               | $\neg$   |           |
| T       | 30          | V              |          |     | Г |     |   |   |    |    | 1 1 |       | 80       |        | ヿ      |           |        |        |              |               | ╗        | $\exists$ |
|         | 31          | ī/             |          |     |   |     | Γ |   |    |    | 1 1 |       | 81       |        | 7      |           |        |        |              |               |          |           |
| Т       | 32          | $\overline{Z}$ |          |     |   |     |   |   |    |    | 1 1 |       | 82       |        |        |           |        |        |              |               | $\neg$   | ヿ         |
| T       | 33          |                |          |     |   |     |   |   |    |    |     |       | 83       | ヿ      |        |           |        |        |              |               | $\neg$   | $\neg$    |
|         | 34          | V              |          |     |   |     |   |   |    |    |     |       | 84       | ╗      |        |           |        |        |              |               |          | ヿ         |
|         | 35          | V              |          |     |   |     |   |   |    |    | ÌÌ  | -     | 85       |        |        |           |        |        |              |               | $\neg$   |           |
|         | 36          |                |          |     |   |     |   |   |    |    | ĺĺ  |       | 86       | $\neg$ | T      |           |        |        |              |               | コ        |           |
|         | 37          |                |          |     |   |     |   |   |    |    |     |       | 87       | $\neg$ | $\neg$ |           |        |        |              |               | $\neg$   |           |
|         | 38          |                |          |     |   |     |   |   |    |    |     |       | 88       |        |        | $\neg$    |        |        |              |               |          |           |
|         | 39          |                |          |     |   |     |   |   |    |    |     |       | 89       |        |        |           |        |        | $\neg$       |               | $\neg$   |           |
|         | 40          |                |          |     |   |     |   |   |    |    |     |       | 90       | $\neg$ |        |           |        |        |              |               | $\neg$   |           |
|         | 41          |                |          |     |   |     |   |   |    |    |     |       | 91       | ╗      | $\neg$ |           |        |        |              |               | $\neg$   |           |
|         | 42          |                |          |     |   |     |   |   |    |    |     |       | 92       | T      | $\neg$ |           |        |        |              |               | コ        |           |
| $\prod$ | 43          |                |          |     |   |     |   |   |    |    |     |       | 93       | $\neg$ |        | $\exists$ |        |        |              | $\neg$        | 一        | $\neg$    |
|         | 44          |                |          |     |   |     |   |   |    |    |     |       | 94       |        |        |           |        |        |              | ╗             | $\dashv$ | $\neg$    |
|         | 45          |                |          |     |   |     |   |   |    |    | [   |       | 95       |        |        |           |        |        | $\neg$       | 7             | $\neg$   | $\neg$    |
| $\prod$ | 46          |                |          |     |   |     |   |   |    |    |     |       | 96       | 丁      | $\Box$ |           |        |        | $\neg$       | $\neg$        | ヿ        | ヿ         |
| $\int$  | 47          |                |          |     |   |     |   |   |    |    |     |       | 97       |        | 丁      | $\neg$    | $\neg$ | $\neg$ | $\neg$       | $\neg$        | コ        | $\neg$    |
|         | 48          |                |          |     |   |     |   |   |    |    |     |       | 98       |        | 丁      |           |        | $\neg$ | $\neg$       |               | $\neg$   | ヿ         |
| ot      | 49          |                |          |     |   |     |   |   |    |    |     |       | 99       |        | $\Box$ |           |        |        |              | 一             | ヿ        | $\neg$    |
| $\Box$  | 50          | $\Box$         |          |     |   |     |   |   |    |    |     |       | 100      |        |        |           |        |        |              | 寸             | 寸        | $\dashv$  |
|         |             |                |          |     |   |     |   |   |    |    | _   |       |          |        |        |           |        |        |              |               |          | _         |

| CI    | Date                     |          |          |          |          |                |          |          |          |                 |
|-------|--------------------------|----------|----------|----------|----------|----------------|----------|----------|----------|-----------------|
| Final | Original                 |          |          |          |          |                |          |          |          |                 |
|       | 101                      |          |          |          |          | Ė              | Ė        | L        |          |                 |
|       | 102<br>103               | ⊢        | -        | $\vdash$ | $\vdash$ | ╁              | ⊢        | ⊢        | -        | Н               |
|       | 104                      | H        | -        |          | $\vdash$ | <b></b> -      | ┢        | ⊢        | ├        | Н               |
| _     | 105                      | $\vdash$ | -        | ╁        | H        | -              | H        |          | ╁-       | $\vdash$        |
|       | 105<br>106               |          |          |          |          | 1              | 1        | T        | 1        | Н               |
|       | 107                      |          |          |          |          |                | 1        |          |          |                 |
|       | 108<br>109               |          |          |          |          |                |          |          |          |                 |
|       | 109                      |          | _        |          |          | <u> </u>       | 1_       |          |          |                 |
|       | 110                      | <u> </u> | _        | <u> </u> | L        | ┡              | _        | _        | <u> </u> | Ш               |
|       | 111<br>112               | -        | -        | _        | $\vdash$ | -              | $\vdash$ | _        | <u> </u> | $\vdash \vdash$ |
|       | 112                      | ├—       | ┝        | _        | ⊢        | ⊢              | 1        | -        | ⊢        | Н               |
|       | 113<br>114               | $\vdash$ | ├        | ├—       | -        | ┼              | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$        |
|       | 115                      | -        | $\vdash$ | $\vdash$ | -        | $\vdash$       | $\vdash$ | -        | $\vdash$ | $\vdash$        |
|       | 116                      | -        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$       | +-       | ┢        | $\vdash$ | $\vdash$        |
|       | 116<br>117               | $\vdash$ |          |          | ┢        | H              | $\vdash$ | $\vdash$ |          | Н               |
|       | 118                      |          | _        |          |          | $\vdash$       | ┢        |          |          | Н               |
|       | 1110                     |          |          |          |          |                | Г        |          |          | П               |
|       | 120<br>121<br>122<br>123 |          |          |          |          |                |          |          |          |                 |
|       | 121                      |          |          |          |          |                |          |          |          |                 |
|       | 122                      | <u> </u> |          |          | _        | Ь.             | L        | _        |          | Ш               |
|       | 123                      | <u> </u> | <u> </u> |          | _        | <del> </del> _ | <u> </u> | ldash    | <u> </u> | Щ               |
|       | 124<br>125<br>126        | <u> </u> | $\vdash$ | <u> </u> | <u> </u> | ⊢              | ├-       | ⊢        | ⊢        | Н               |
|       | 126                      |          | <u> </u> |          |          | ├─             | ⊢        | ├        | $\vdash$ | Н               |
|       | 127                      | Н        |          |          | ┝        |                | $\vdash$ | $\vdash$ |          | Н               |
|       | 127<br>128<br>129        | _        |          | _        |          | $\vdash$       | <b>-</b> |          | -        | Н               |
|       | 129                      |          |          |          |          |                |          | Т        | $\vdash$ | Н               |
|       | 130<br>131               |          |          |          |          |                |          |          |          |                 |
|       | 131                      |          |          |          |          |                |          |          |          |                 |
|       | 132<br>133               |          |          |          |          |                |          |          |          |                 |
|       | 133                      |          | Щ        | Щ        |          | _              | _        | L.       | ldash    | Щ               |
|       | 134                      | Н        |          | _        | _        |                | <u> </u> | L        | $\vdash$ | Ш               |
|       | 135<br>136               |          | -        |          |          | $\vdash$       | $\vdash$ | _        | $\vdash$ | $\vdash$        |
| -     | 137                      |          |          |          |          |                | $\vdash$ | -        |          | _               |
|       | 138                      | Н        |          | -        |          | -              |          | H        | Н        | $\vdash$        |
|       | 138<br>139               | $\vdash$ | Н        |          | _        | H              |          | _        | $\vdash$ | Н               |
|       | 140                      |          |          |          |          |                |          |          |          |                 |
|       | 141                      |          |          |          |          |                |          |          |          |                 |
|       | 142                      |          |          |          |          |                |          |          |          |                 |
|       | 143                      |          |          |          |          | Щ              | Ш        |          |          |                 |
|       | 144                      |          | Ц        | Ц        |          |                | Ш        |          | Щ        | Щ               |
|       | 145                      | _        | 4        | Ц        |          | H              | <u> </u> |          | Щ        |                 |
|       | 146                      | $\dashv$ | $\dashv$ | _        |          |                | _        | Щ        | Н        | Щ               |
|       | 147<br>148               | $\dashv$ | $\dashv$ |          |          |                |          |          | Н        | $\dashv$        |
| -     | 149                      | $\dashv$ |          | $\dashv$ |          | $\vdash$       | Н        | Н        | $\dashv$ | $\dashv$        |
|       | 150                      | $\dashv$ |          | $\dashv$ |          | Н              | H        | $\vdash$ | $\dashv$ | $\dashv$        |
|       |                          |          |          |          | _        |                |          | L        |          |                 |